

Form PTO-1449 U.S. Department of Commerce

(REV. 8-83) Patent and Trademark Office

INFORMATION DISCLOSURE CITATION
(use several sheets if necessary)Atty. Docket No.
ENZ-61(D7)

Serial No. 10/764,393

Applicants: Ilan, et al

Filed: January 23, 2004 | Group: Not yet known

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
M	5 4 9 4 8 1 0		Barany, et al			
M	6 0 0 4 2 8 6		Bellhouse, et al			
M	5 5 8 2 9 8 4		Bieniarz, et al			
M	5 5 9 9 9 3 2		Bieniarz, et al			
M	4 9 7 8 6 1 4		Bronstein, IY			
M	5 4 6 2 8 5 4		Coassin, et al			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	TRANSLATION YES NO
M	EP 0 6 6 7 3 9 3	8/16/95	Rabbani et al	A1		
M	EP 0 0 7 0 6 8 5	7/14/82	Heller, et al	A1		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

M	Ball, et al., "The use of tailed octamer primers for cycle sequencing," <u>Nucl. Acids Res.</u> 26:5225-5227 (1998)
M	Baranov, et al., "A new technique for the characterization of long-range tertiary contacts in large RNA molecules: insertion of a photolabel at a selected position in 16S rRNA within the Escherichia coli ribosome," <u>Nucl. Acids Res.</u> 25:2266-2273 (1997)
	Dale, R.M., et al., "Direct covalent mercuration of nucleotides and polynucleotides," <u>Biochemistry</u> 14:2447-2457 (1975)
M	Dale, R.M., et al., "The synthesis and enzymatic polymerization of nucleotide containing mercury: potential tools for nucleic acid sequencing and structural analysis," <u>Proc. Natl. Acad. Sci. USA</u> 70:2238-2242 (1973)
M	Doan, T.L., et al., "Targeted cleavage of polynucleotides by complementary oligonucleotides covalently linked to iron-porphyrins," <u>Biochemistry</u> 25:6736-6739 (1986)
M	Eglinton, G., et al., "A coupling of acetylenic compounds," <u>Adv. Organic Synthesis</u> 4:225-328 (1963)

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3/21/05

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U	5 8 4 9 4 8 0		Cros, et al			
U	4 8 9 4 3 2 5		Engelhardt, et al			
U	5 2 4 1 0 6 0		Engelhardt, et al			
U	5 2 8 8 6 0 9		Engelhardt, et al			
U	6 2 2 1 5 8 1		Engelhardt, et al			
U	4 3 7 5 9 7 2		Forgione, et al			
U	5 2 1 0 0 1 5		Gelfand, et al			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	TRANSLATION YES NO
	WO 9 9 2 8 5 0 0	11/27/98	Lee, et al			
	EP 0 9 1 7 0 3 9	1/12/00	Rabbani, et al	A1		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Enzo Biochem, Catalog Nos. 42722, 4723, 4724, New York, NY		No Date
U	Ernst, et al., "Cyanine dye labeling reagents for sulphydryl groups," <i>Cytometry</i> 10:3-10 (1989)		
U	Fuhrop, J.H., et al., Chapter 19 in "Porphyrins and Metalloporphyrins," ed. Smith, K.M., Elsevier Science, New York (1975)		
U	Kawase, et al., "Studies on nucleic acid interactions. I. Stabilities of mini-duplexes (dG2A4XA4G2-dC2T4YT4C2) and self-complementary d(GGGAAXYTTCCC) containing deoxyinosine and other mismatched bases," <i>Nucl. Acids. Res.</i> 14:7727-7736 (1986)		
U	Kuhlmann, K.F., et al., "Synthesis, DNA-binding and biological activity of a double intercalating analog of ethidium bromide," <i>Nucl. Acids. Res.</i> 5:2629-2633 (1978)		
U	Larock, "Organomercurials in Organic Synthesis," <i>Tetrahedron</i> 38:1713-1754 (1982)		
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M	6	3	3	8	9	5	4		Gemen, B.			
LL	5	6	4	6	2	6	4		Glazer, et al			
AA	5	2	4	8	6	1	8		Haces, A.			
M	5	7	3	0	8	4	9		Hamby, et al			
M	4	7	0	7	4	5	4		Hendrix, JL			
AA	5	4	6	4	7	4	1		Hendrix, JL			
AA	5	9	9	4	0	5	6		Higuchi, RG			
M	5	0	4	7	5	1	9		Hobbs, et al			

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M	EP	1	2	7	5	7	3	7	1/15/03-	Rabbani, et al	A1	
M	EP	1	3	4	4	8	3	5	11/17/03	Rabbani, et al	A1	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

M	Lee, L.G., et al., "DNA sequencing with dye-labeled terminators and T7 DNA polymerase: effect of dyes and dNTPs on incorporation of dye-terminators and probability analysis of termination fragments," <i>Nucl. Acids Res.</i> 20:2471-2488 (1992)
	Liu, H., et al., "PCR amplification using deoxyinosine to replace an entire codon and at ambiguous positions," <i>Biotechniques</i> 16:24-26 (1994)
AA	Liu, D., et al., "Stable human immunodeficiency virus type 1 (HIV-1) resistance in transformed CD4+ monocytic cells treated with multitargeting HIV-1 antisense sequences incorporated into U1 snRNA," <i>J. Virol</i> 71:4079-4085 (1997)
AA	Loakes, D., et al., "5-Nitroindole as an universal base analogue," <i>Nucl. Acids Res.</i> 22:4039-4043 (1994)
M	Loakes, D., "The applications of universal DNA base analogues," <i>Nucl. Acids Res.</i> 29:2437-2447 (2001)

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<i>M</i>	6	2	2	8	5	7	8		Impraim, et al			
<i>M</i>	5	5	5	4	5	1	6		Kacien, et al			
<i>M</i>	5	9	4	8	6	4	8		Kahn, et al			
<i>M</i>	5	9	4	5	2	8	3		Kwok, et al			
<i>M</i>	5	9	4	5	5	2	6		Lee, et al			
<i>M</i>	5	1	1	8	8	0	1		Lizardi, et al			
<i>M</i>	5	1	3	0	2	3	8		Malek, et al			
<i>M</i>	4	6	8	3	2	0	2		Mullis, et al			

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>M</i>	Maulding, D.R., et al., "Chemiluminescence from Reactions of Electrophilic Oxamides with Hydrogen Peroxide and Fluorescent Compounds," <i>J. Org. Chem.</i> 33:250-254 (1968)
<i>M</i>	Moan, J., et al., "Porphyrin photosensitization and phototherapy," <i>Photochem. Photobio.</i> 43:681-690 (1986)
<i>M</i>	Mujumdar, R.B., et al., "Cyanine dye labeling reagents containing isothiocyanate groups," <i>Cytometry</i> 10:11-19 (1989)
<i>M</i>	Mujumdar, R.B., et al., "Cyanine dye labeling reagents: sulfoindocyanine succinimidyl esters," <i>Bioconjugate Chemistry</i> 4:105-111 (1993)
	Nichols, et al., "A universal nucleoside for use at ambiguous sites in DNA primers," <i>Nature</i> 369:492-493 (1994)
<i>M</i>	Okayama, H., et al., "High efficiency cloning of full length cDNA," <i>Mol. Cell. Biol.</i> 2:161 (1982)

EXAMINER *John L.* DATE CONSIDERED *3/21/05*

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<i>JL</i>	5	8	6	6	3	3	6		Nazarenko, et al			
<i>JL</i>	6	1	1	4	3	5	0		Randall, et al.			
<i>JL</i>	6	1	1	0	6	3	0		Reddy, et al			
<i>JL</i>	6	0	0	1	5	7	3		Roalent, C.			
<i>M</i>	5	7	0	7	5	5	9		Schaap, et al			
<i>JL</i>	6	3	2	3	3	3	7		Singer, et al			

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	Rieke, R.D., "The preparation of highly reactive metals and the development of novel organometallic reagents," <u>Aldrichimica Acta</u> 33:52-60 (2000)
	Robins, M.J., et al., "Nucleic Acid Related Compounds. 39. Efficient Conversion of 5-Iodo-to 5-Alkynyl and Derived 5-Substituted Uracil Bases and Nucleosides," <u>J. Org. Chem.</u> 48:1854-1862 (1983)
<i>JL</i>	Schaap, et al., "Chemical and Enzymatic Triggering of 1,2-Dioxetanes. 1: Aryl Esterase-Catalyzed Chemiluminescence from a Naphthyl Acetate-Substituted 1,2-Dioxetane," <u>Tetrahedron Letters</u> 28:935-938 (1987)
<i>JL</i>	Schaap, A.P., et al., "Chemical and Enzymatic Triggering of 1,2-Dioxetanes. 3: Alkaline Phosphatase-Catalyzed Chemiluminescence from an Aryl Phosphate-Substituted Dioxetane," <u>Tetrahedron Letters</u> 28:1159-1163 (1987)
<i>JL</i>	Selinger, D.W., et al., "RNA expression analysis using a 30 base pair resolution <u>Escherichia coli</u> genome array," <u>Nature Biotech.</u> 18:1262-1268 (2000)
<i>JL</i>	Shibahara, S., et al., "Site-directed cleavage of RNA," <u>Nucl. Acids Res.</u> 15:4403-4415 (1987)

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<i>M</i>	4	8	6	8	1	0	3		Stavrianopolous, et al			
<i>M</i>	4	9	5	2	6	8	5		Stavrianopolous, et al			
<i>M</i>	4	9	9	4	3	7	3		Stavrianopolous, et al			
<i>M</i>	5	0	1	3	8	3	1		Stavrianopolous, et al			
<i>M</i>	5	5	7	8	8	3	2		Trulson, et al			
<i>M</i>	5	1	3	2	2	0	4		Urdea, et al			
<i>M</i>	5	8	9	1	6	3	6		Van Gelder, et al			
<i>M</i>	5	2	6	8	4	8	6		Waggoner, et al			

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<i>M</i>	Southwick, P.L., et al., "Cyanine dye labeling reagents - carboxymethylindocyanine succinimidyl esters," <i>Cytometry</i> 11:418-430 (1990)
<i>M</i>	Talaat, A.M., et al., "Genome-directed primers for selective labeling of bacterial transcripts for DNA microarray analysis," <i>Nature Biotech.</i> 18:679-682 (2000)
<i>M</i>	Tao, et al., "Genomics: Expression Analysis of <i>Escherichia coli</i> Growing on Minimal and Rich Media," <i>J. Bact.</i> 181:6425-6490 (1999)
<i>M</i>	Wieringa, J.H., et al., "Adamantylideneadamantane Peroxide. A Stable 1,2 Dioxetane," <i>Tetrahedron Letters</i> 2:169-172 (1972)
<i>M</i>	Zhu, Z., et al., "Directly labeled DNA probes using fluorescent nucleotides with different length linkers," <i>Nucl. Acids. Res.</i> 22:3418-3422 (1994)

EXAMINER *Dan L.*DATE CONSIDERED *3/14/03*

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<i>JH</i>	5	6	2	7	0	2	7		Waggoner, et al			
<i>JH</i>	6	0	0	8	3	7	3		Waggoner, et al			
<i>W</i>	5	2	7	0	1	8	4		Walker, et al			
<i>W</i>	5	4	5	5	1	6	6		Walker, et al			
<i>W</i>	4	7	1	1	9	5	5		Ward, et al			
<i>W-</i>	5	4	5	5	1	7	5		Wittwer, et al			
<i>W</i>	6	1	7	4	6	7	0		Wittwer, et al			

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